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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	IRST NAMED INVENTOR ATTORNEY DOCKET NO.	
09/998,370	11/29/2001	David Ray Kahler	TUC920010103US1 6965	
24033 7	7590 08/06/2004	EXAMINER		
KONRAD RA	AYNES & VICTOR,	BONURA, TIMOTHY M		
315 S. BEVER # 210	LLY DRIVE	ART UNIT	PAPÉR NUMBER	
BEVERLY HILLS, CA 90212			2114	

DATE MAILED: 08/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application	No.	Applicant(s)	M			
Office Action Summary		09/998,370		KAHLER ET AL.	A -			
		Examiner		Art Unit	-			
		Tim Bonura		2114				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)🖂	Responsive to communication(s) filed on 29 No	lovember 200	<u>1</u> .					
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.							
3)								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims							
 4) Claim(s) 1-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,13,15-21,30,32-38,47 and 49-51 is/are rejected. 7) Claim(s) 5-12,14,22-29,31,39-46 and 48 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicat	ion Papers							
9)[The specification is objected to by the Examine	er.						
10)🛛	The drawing(s) filed on 29 November 2001 is/a	are: a)⊠ acc	epted or b)□ object	ed to by the Examin	er.			
	Applicant may not request that any objection to the		-					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
A44.c.b	**(a)							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 12/18/2002.		Paper No(s)/Mail Da Notice of Informal P Other:	ate	52)			
J.S. Patent and	Frademark Office							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 13, 15-21, 30, 32-38, 47, 49-51 are rejected under 35 U.S.C. 102(b) as being anticipated by Powers, et al, U.S. Patent Number 5,212,785.
- 3. Regarding claim 1:
 - a. Regarding the limitation of "detecting an error in a system including a first adaptor, wherein the first adaptor is capable of communicating on the storage network after the error is detected," Powers discloses a system with a plurality of memory devices and components for controlling data flow with failure handling. (Lines 50-55 of Column 1).
 - b. Regarding the limitation of "in response to detecting the error, initiating a monitoring state to monitor I/O requests transmitted through a second adaptor," Powers discloses a system wherein a controller fails and the first control and second controller can handle the fail over and maintain constant configuration of the drives. (Lines 13-21 of Column 2).
 - c. Regarding the limitation of "in response to receiving an I/O request, starting an I/O delay timer that is less than a system timeout period wherein an error recovery procedure in the system including the first adaptor would be initiated after the system

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timeout period has expired," Powers discloses a system with a timeout counter for the I/O controller. (Lines 11-14 of Column 7). Once a timeout has occurred, a system failure is indicated and recovery proceeds. (Lines 24-30 of Column 7).

- d. Regarding the limitation of "sending a reset request to the first adaptor in response to detecting an expiration of one started I/O delay timer," Powers discloses a system with wherein in response to the timeout, a secondary controller takes over as the primary and secondary controller. This is called BOTH STATES by the art. (Lines 65-67 of Column 7 and Line 1 of Column 8).
- 4. Regarding claim 2, Powers discloses system wherein the controller can suffer a complete failure, which results in total lack of communication with the memory devices. (Lines 23-27 of Column 2).
- 5. Regarding claim 3, Powers discloses a system wherein the secondary controller is a failure for the primary controller. (Lines 30-34 of Column 2).
- 6. Regarding claim 4, Powers discloses a system that can start a timeout period after an error detection (Lines 11-14 of Column 7) and releases a controller for the memory device for which it controlled upon the timeout period being reached. (Lines 24-32 of Column 7).
- 7. Regarding claim 13, Power discloses a system wherein the memory devices are shown connected in a loop structure between the two controllers. (See Figure 1, Items 18A, 18B, 18M with 14A and 14B).
- 8. Regarding claim 15, Powers discloses system wherein the controller can suffer a complete failure, which results in total lack of communication with the memory devices. (Lines 23-27 of Column 2).

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9. Regarding claim 16, Powers discloses a system only the controller with the fault shuts down for the fault recovery. (Lines 14-17 of Column 5).

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- 10. Regarding claim 17, Power discloses a system wherein the controller that fails shuts down. It would be inherent that the controller would have to be restarted in order to be brought back online. (Lines 14-17 of Column 5).
- 11. Regarding claim 18:
 - e. Regarding the limitation of "a second adaptor capable of communicating on the storage network," Powers discloses a system with a second controller. (Lines 66-67 of Column 1 and Lines 1-5 of Column 2).
 - f. Regarding the limitation of "detecting an error in a system including a first adaptor, wherein the first adaptor is capable of communicating on the storage network after the error is detected," Powers discloses a system with a plurality of memory devices and components for controlling data flow with failure handling. (Lines 50-55 of Column 1).
 - g. Regarding the limitation of "initiating a monitoring state to monitor I/O requests transmitted through a second adaptor, in response to detecting the error" Powers discloses a system wherein a controller fails and the first control and second controller can handle the fail over and maintain constant configuration of the drives. (Lines 13-21 of Column 2).
 - h. Regarding the limitation of "starting an I/O delay timer that is less than a system timeout period in response to receiving an I/O request," Powers discloses a system with a

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timeout counter for the I/O controller. (Lines 11-14 of Column 7). Once a timeout has occurred, a system failure is indicated and recovery proceeds. (Lines 24-30 of Column 7).

- i. Regarding the limitation of "sending a reset request to the first adaptor in response to detecting an expiration of one started I/O delay timer," Powers discloses a system with wherein in response to the timeout, a secondary controller takes over as the primary and secondary controller. This is called BOTH STATES by the art. (Lines 65-67 of Column 7 and Line 1 of Column 8).
- 12. Regarding claim 19, Powers discloses system wherein the controller can suffer a complete failure, which results in total lack of communication with the memory devices. (Lines 23-27 of Column 2).
- 13. Regarding claim 20, Powers discloses a system wherein the secondary controller is a failure for the primary controller. (Lines 30-34 of Column 2).
- Regarding claim 21, Powers discloses a system that can start a timeout period after an error detection (Lines 11-14 of Column 7) and releases a controller for the memory device for which it controlled upon the timeout period being reached. (Lines 24-32 of Column 7).
- 15. Regarding claim 30, Power discloses a system wherein the memory devices are shown connected in a loop structure between the two controllers. (See Figure 1, Items 18A, 18B, 18M with 14A and 14B).
- 16. Regarding claim 32, Powers discloses system wherein the controller can suffer a complete failure, which results in total lack of communication with the memory devices. (Lines 23-27 of Column 2).

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17. Regarding claim 33, Powers discloses a system only the controller with the fault shuts down for the fault recovery. (Lines 14-17 of Column 5).

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- 18. Regarding claim 34, Power discloses a system wherein the controller that fails shuts down. It would be inherent that the controller would have to be restarted in order to be brought back online. (Lines 14-17 of Column 5).
- 19. Regarding claim 35:
 - j. Regarding the limitation of "detecting an error in a system including a first adaptor, wherein the first adaptor is capable of communicating on the storage network after the error is detected," Powers discloses a system with a plurality of memory devices and components for controlling data flow with failure handling. (Lines 50-55 of Column 1).
 - k. Regarding the limitation of "in response to detecting the error, initiating a monitoring state to monitor I/O requests transmitted through a second adaptor," Powers discloses a system wherein a controller fails and the first control and second controller can handle the fail over and maintain constant configuration of the drives. (Lines 13-21 of Column 2).
 - I. Regarding the limitation of "in response to receiving an I/O request, starting an I/O delay timer that is less than a system timeout period wherein an error recovery procedure in the system including the first adaptor would be initiated after the system timeout period has expired," Powers discloses a system with a timeout counter for the I/O controller. (Lines 11-14 of Column 7). Once a timeout has occurred, a system failure is indicated and recovery proceeds. (Lines 24-30 of Column 7).

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- m. Regarding the limitation of sending a reset request to the first adaptor in response to detecting an expiration of one started I/O delay timer," Powers discloses a system with wherein in response to the timeout, a secondary controller takes over as the primary and secondary controller. This is called BOTH STATES by the art. (Lines 65-67 of Column 7 and Line 1 of Column 8).
- 20. Regarding claim 36, Powers discloses system wherein the controller can suffer a complete failure, which results in total lack of communication with the memory devices. (Lines 23-27 of Column 2).
- 21. Regarding claim 37, Powers discloses a system wherein the secondary controller is a failure for the primary controller. (Lines 30-34 of Column 2).
- 22. Regarding claim 38, Powers discloses a system that can start a timeout period after an error detection (Lines 11-14 of Column 7) and releases a controller for the memory device for which it controlled upon the timeout period being reached. (Lines 24-32 of Column 7).
- 23. Regarding claim 47, Power discloses a system wherein the memory devices are shown connected in a loop structure between the two controllers. (See Figure 1, Items 18A, 18B, 18M with 14A and 14B).
- 24. Regarding claim 49, Powers discloses system wherein the controller can suffer a complete failure, which results in total lack of communication with the memory devices. (Lines 23-27 of Column 2).
- 25. Regarding claim 50, Powers discloses a system only the controller with the fault shuts down for the fault recovery. (Lines 14-17 of Column 5).

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26. Regarding claim 51, Power discloses a system wherein the controller that fails shuts down. It would be inherent that the controller would have to be restarted in order to be brought back online. (Lines 14-17 of Column 5).

Claim Rejections - 35 USC § 101

27. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 35 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. A "computer readable medium containing computer executable instructions to perform the steps of..." is the proper claim language for an "article of manufacture including code for processing..." as claimed in claim 35.

Allowable Subject Matter

28. Claims 5-12, 14, 22-29, 31, 39-46, and 48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 29. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tim Bonura.**
 - o The examiner can normally be reached on Mon-Fri: 7:30-5:00, every other Friday off. The examiner can be reached at: 703-305-7762.

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30. If attempts to reach the examiner by telephone are unsuccessful, please contact the

examiner's supervisor, Rob Beausoliel.

o The supervisor can be reached on 703-305-9713.

31. The fax phone numbers for the organization where this application or proceeding is

assigned are:

o 703-872-9306 for all patent related correspondence by FAX.

32. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov/. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

33. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is: 703-305-3900.

34. Responses should be mailed to:

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria, VA 22313-1450

Tim Bonura Examiner

Art Unit 2114

tmb

July 29, 2004

ROBERT BEAUSOLIEL

RAUTUBAMOLS!

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SUPERVISORY PATENT EXAMINER

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